

ABSTRACT OF THE DISCLOSURE

A lens actuator includes a lens holder to support an objective lens and having a pair of first side surfaces in a tracking direction and a pair of  
5 second side surfaces in a tangential direction, a fixed magnet disposed to confront the second side surface and comprising four regions having approximately the same area and are magnetic, such that magnetic directions of the four regions are perpendicular to a plane including  
10 a focusing direction and the tracking direction but are in opposite directions between two mutually adjacent regions, a pair of tracking coils disposed between the second surface and the magnet and having centers located on an outer side of corresponding centers of the four  
15 regions in the tracking direction, a focusing coil disposed between the second surface and the magnet and having a center located on an outer side of corresponding centers of the four regions in the focusing direction, and a radial tilt coil disposed  
20 between the second surface and the magnet and having a center located on an outer side of corresponding centers of the four regions in the focusing direction.